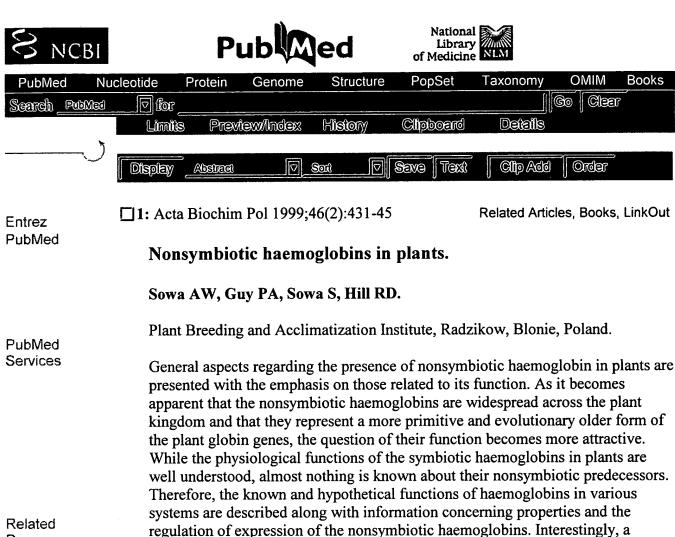
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PMID: 10547043 [PubMed - indexed for MEDLINE]

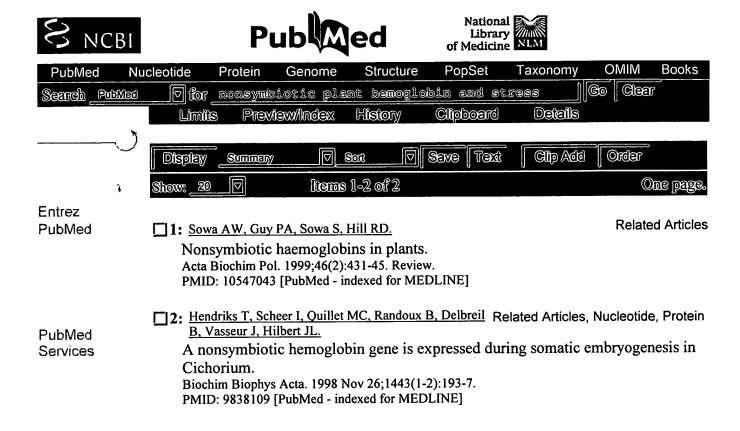
an integral part of the plants response to limiting oxygen stress.



number of nonsymbiotic haemoglobins have been shown to be hypoxia-inducible. The spatial and temporal pattern of this induction in barley may suggest that it is

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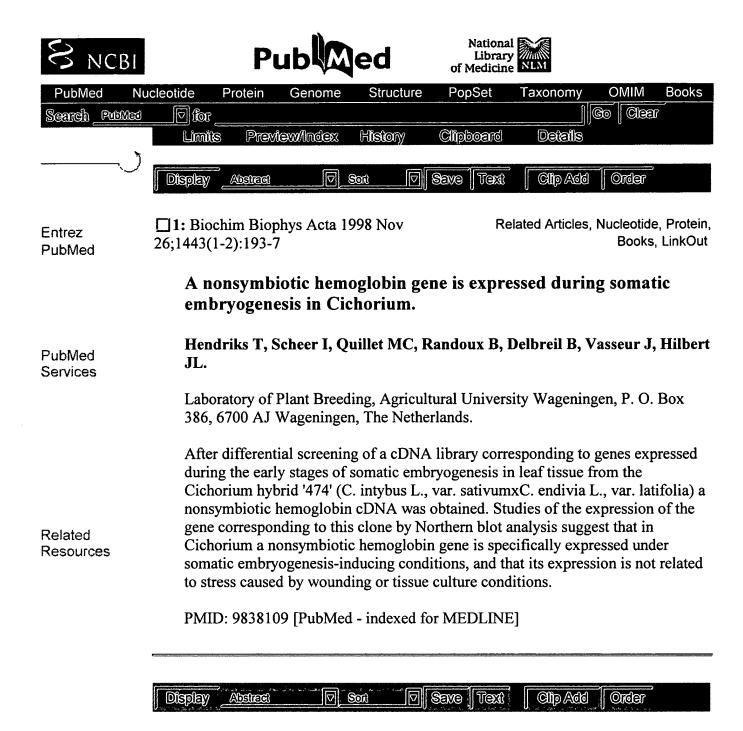
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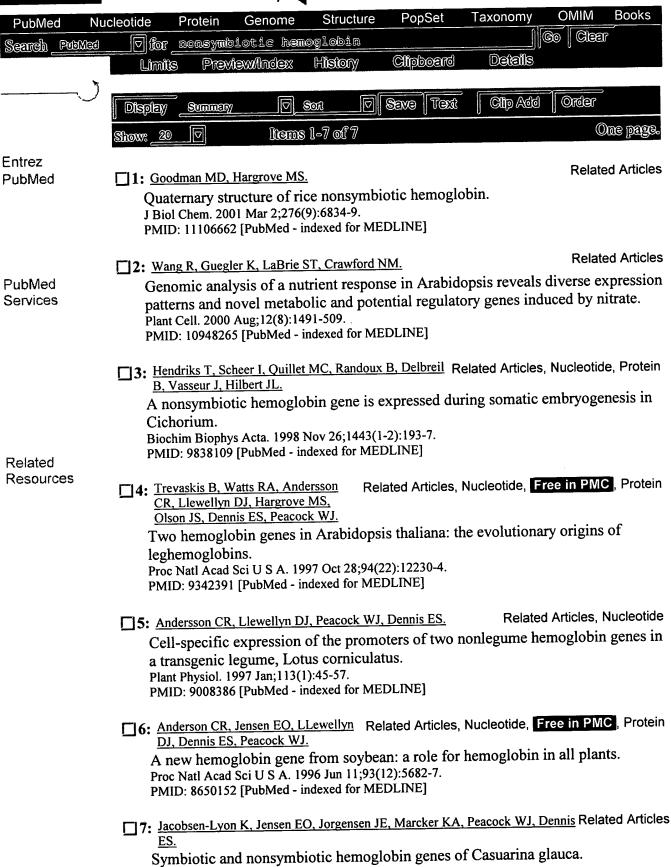
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Plant Cell. 1995 Feb;7(2):213-23. PMID: 7756831 [PubMed - indexed for MEDLINE]

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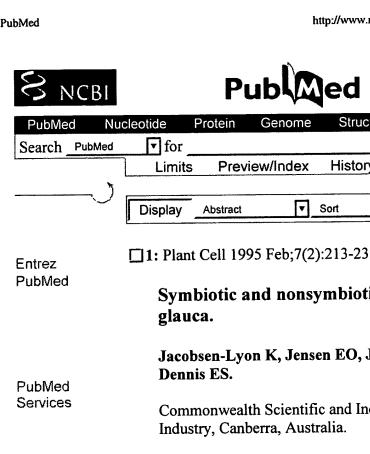
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Symbiotic and nonsymbiotic hemoglobin genes of Casuarina

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Jacobsen-Lyon K, Jensen EO, Jorgensen JE, Marcker KA, Peacock WJ,

Commonwealth Scientific and Industrial Research Organization, Division of Plant Industry, Canberra, Australia.

Casuarina glauca has a gene encoding hemoglobin (cashb-nonsym). This gene is expressed in a number of plant tissues. Casuarina also has a second family of hemoglobin genes (cashb-sym) expressed at a high level in the nodules that Casuarina forms in a nitrogen-fixing symbiosis with the actinomycete Frankia. Both the nonsymbiotic and symbiotic genes retained their specific patterns of expression when introduced into the legume Lotus corniculatus. We interpret this finding to mean that the controls of expression of the symbiotic gene in Casuarina must be similar to the controls of expression of the leghemoglobin genes that operate in nodules formed during the interaction between rhizobia and legumes. Deletion analyses of the promoters of the Casuarina symbiotic genes delineated a region that contains nodulin motifs identified in legumes; this region is critical for the controlled expression of the Casuarina gene. The finding that the nonsymbiotic Casuarina gene is also correctly expressed in L. corniculatus suggests to us that a comparable non-symbiotic hemoglobin gene will be found in legume species.

PMID: 7756831 [PubMed - indexed for MEDLINE]

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